

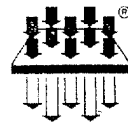
PRODUCT DATA SHEETS



SEITZ-FILTER-WERKE

GmbH und Co.

Planiger Str. 137 · D-55543 Bad Kreuznach · ☎ (0671) 88 22-0 · Fax (0671) 88 22 200 · 428 28 stw d



CERTIFICATE OF ANALYSIS for SEITZ-KS 80

SEITZ filter sheets are made from carefully selected, natural raw materials according to latest technical knowledge using most modern manufacturing techniques. Small tolerances in the composition may be due to the fact that the raw materials used are natural products. The filtration effect for this type of filter sheet is proved and confirmed by various quality control tests.

The following figures represent the most important characteristic data and mean values:

Basis weight	(g m ⁻²)	1300
Thickness	(mm)	3,7
Volume weight (density)	(g cm ⁻³)	0,35
Maximum dry content	(%)	98
Maximum ash content	(%)	50
pH-value (according to DAB 9)	methyl red	yellow
	phenolphthalein	colourless
Water flow rate Δp 100 kPa	(L m ⁻² min ⁻¹)	110
Maximum bacteria challenge CFU/cm ² filter area in physiological saline solution (test organism: E. coli)		10 ⁶
Organoleptic examination: filtrate neutral in odour and taste		o.k.
Components:		cellulose
		kieselguhr
		perlite
		polyamine acetate
Retention agent:		
Extractable ions (mg m ⁻²)		
soluble in: 0.05 N H ₂ SO ₄ , e.g.	Ca	< 1500
	Fe	< 75
Heavy metals as per Recomm. XXXVI/I (total digestion, ppm)		< 50

These filter sheets fulfill the requirements and quality standards as specified for the above sheet type.

SEITZ-FILTER-WERKE
GmbH und Co.

Bad Kreuznach, 8/8/94

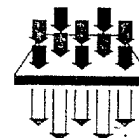
[Signature]
(Head of Quality Control)

XI '91



SEITZ-FILTER-WERKE

Theo & Geo Seitz GmbH und Co.
Postfach 2363 · Planiger Straße 137 · D-6550 Bad Kreuznach
Telefon (06 71) 704-0 · Telex 42828 sfw d · Telefax 67191900 sfw d · Telefax (06 71) 704200



QUALITY SPECIFICATION

SEITZ filter sheets are made from carefully selected, natural raw materials according to the latest technical knowledge using most modern manufacturing techniques. Small tolerances in the composition caused by the use of natural raw materials are unavoidable. The filtration effect for this type of filter sheet is proved and confirmed by various quality control tests.

The following figures represent the most important characteristic data:

Analytical data:

Minimum basis weight	g m ⁻²	1300
Minimum thickness	mm	3,9
Minimum density	g cm ⁻³	0,34
Minimum dry content	%	98
Maximum ash content	%	50
pH-value (accord. DAB)	methyl red	yellow
	phenolphthalein	colourless
Flow rate (water)	1 m ⁻² min ⁻¹ Δp. 1 bar	220
Maximum organism challenge CFU/cm ² filter area in a physiological saline solution (test organism: E.coli)		-,-
Sensory examinations: filtrate neutral in odour and taste:		o.k.
Components:		cellulose
		kieselguhr
		perlite
Ions (mg m ⁻²)		
soluble in: 0,05 n H ₂ SO ₄ , e.g.	Ca	< 1500
	Fe	< 100
		< 50
Heavy metals (total digestion)		
Retention agent:		epichlorohydrin resin
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These filter sheets correspond to the requirements and the quality standard laid down for the sheet type K 200

SEITZ-FILTER-WERKE
Theo & Geo Seitz GmbH und Co.
- Quality Assurance -

Bad Kreuznach, 9-25-1989

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H. J. Vossler
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